Stud Gun


Operating instructions

(ID-No. 00035102)

00100192  EP-8 (gun for manual use) □
00101758  EP-8 (gun for machine) □
00100193  EP-9 (gun for manual use) □
00100262  EP-9 (gun for machine) □
00100194  EP-10 (gun for manual use) □
00100263  EP-10 (gun for machine) □

assembled:

Date: ________________
Name: ________________
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<td>10.3 Manufacturer and contact person ..............................................................</td>
</tr>
</tbody>
</table>
1 Preface and general information

1.1 General

The operating instructions is used for safe operation of the Stud Guns (in the following referred to as “gun”) type Automatic Stud Gun EP-8, EP-9 and EP-10 (ID-No. 100192, 100193, 100194, 101758, 100262, 100263)). The safety instructions included hereinafter must be observed.

The operating instructions must be available for anybody who is working with the gun and the included instructions must be carefully attended to.

The operating instructions must always be complete and perfectly readable.

1.2 Scope of supply

The delivery normally consists of a stud gun, the operating instruction and 1 separating finger for multi-flange studs fingers (only EP-8 and EP-9). The parts included in your delivery are stated in the accompanying papers.

These papers shall be checked for conformity, immediately after receipt of the goods. OKU GmbH does not provide any guarantee and/or accept any liability for defects complained belatedly.

Therefore:

- Contact the forwarder immediately to complain visible transit damages.
- Contact OKU GmbH immediately to complain visible defects and/or incompleteness of delivery.

1.3 Intended use

The gun is intended to be used only for the insertion of single and multi-flange spikes into tyres of cars.

Any other use shall be deemed to be inappropriate!
1.4 Liability

The information, data and notes of this operating instruction were up-to-date when passing for press. The specifications, illustrations and descriptions included hereinafter do not apply for any previously supplied guns.

We do not accept liability for damages and operating troubles caused by:

- inappropriate use.
- unauthorized modification of gun.
- improper operation of the gun.
- operating errors.
- disregard of this operating instructions.

1.5 Warranty

Conditions of warranty: see Standard Terms and Conditions of OKU GmbH.

Assert warranty claims against OKU GmbH immediately after detection of the defect.

Warranty claims expire in each case in which liability claims cannot be made.
2 Safety information

2.1 Personnel responsible for safety

2.1.1 Operator

Operator is called any natural or legal person who is using the gun and/or on behalf of whom the gun is used.

The operator and/or his safety officer must ensure,

• observance of the relevant regulations, instructions and laws,
• only qualified personnel is working with the gun,
• personnel having the operating instructions available at any time,
• to prohibit non-qualified personnel from working with the gun.

2.1.2 Qualified personnel

As qualified personnel are to be considered persons who were authorised by the safety officer of the plant to perform the necessary activities and who are able to recognise and avoid potential hazards because of their education, experience, instructions and their knowledge about corresponding standards and rules for the prevention of accidents as well as operating conditions (see IEC 364, definition for qualified personnel).
2.2 General safety instructions

These safety instructions do not claim to be exhaustive. In case of any questions, please, contact OKU.

At the time of delivery the gun is state of the art and reliable.

The gun is a source of danger for persons, for the gun itself and for other material assets of the operator, if

- it is operated by unqualified personnel.
- it is used inappropriately.

Operate the gun only when it is in good condition.

Any upgrade, modification or redesign of the gun is basically prohibited. In this case, please confer with OKU.

2.3 Layout of the safety instructions

The safety instructions described hereinafter are arranged consistently.

Beware of personal injury

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Meaning</th>
<th>Signal words</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Warning for hazardous electrical voltage" /></td>
<td>Warning for hazardous electrical voltage</td>
<td>Danger!</td>
<td>Warns of imminent danger. Consequences of disregarding: Death or very severe injuries</td>
</tr>
<tr>
<td><img src="image" alt="Warning for general danger" /></td>
<td>Warning for general danger</td>
<td>Warning!</td>
<td>Warns of a potential, very hazardous situation. Consequences if disregarded: Death or very severe injuries</td>
</tr>
<tr>
<td><img src="image" alt="Warning for a general danger" /></td>
<td>Warning for a general danger</td>
<td>Caution!</td>
<td>Warns of a potential hazardous situation. Consequences if disregarded: Light or minor injuries</td>
</tr>
</tbody>
</table>
### Warning of material damage

<table>
<thead>
<tr>
<th>Icons used</th>
<th>Meaning</th>
<th>Signal words</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>![STOP]</td>
<td>Warning of material damage</td>
<td>Stop!</td>
<td>Warns of potential material damage. Consequences if disregarded: Ambient damage or damage of the gun.</td>
</tr>
</tbody>
</table>

### Other information

<table>
<thead>
<tr>
<th>Icons used</th>
<th>Meaning</th>
<th>Signal words</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>![i]</td>
<td>General note</td>
<td>Note!</td>
<td>Designates a general, useful note. Adherence hereof will ease the use of the gun.</td>
</tr>
</tbody>
</table>
3 Technical Data

3.1 Stud types

The gun can be used for the insertion of single-flange and multi-flange studs into car tires. Factory setting is for the insertion of single-flange studs.

To operate the gun with multi-flange studs you'll be needed to convert the gun (not possible for EP-10). Exchange the separating finger (20) of the single-flange studs for the provided separating fingers of the multi-flange studs, as described in chapter 6.7.

<table>
<thead>
<tr>
<th>Type</th>
<th>ID.-No.</th>
<th>Stud sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP-8 (gun for manual use)</td>
<td>100192</td>
<td>Ø8 from a length of 11 mm Multi-flange studs with a Ø8 and a length of 10 mm can be inserted with gun EPK-8 only.</td>
</tr>
<tr>
<td>EP-8 (gun for machine)</td>
<td>101758</td>
<td></td>
</tr>
<tr>
<td>EP-9 (gun for manual use)</td>
<td>100193</td>
<td>Ø8 from a length of 11 mm Ø9 from a length of 11 mm</td>
</tr>
<tr>
<td>EP-9 (gun for machine)</td>
<td>100262</td>
<td></td>
</tr>
<tr>
<td>EP-10 (gun for manual use)</td>
<td>100194</td>
<td>Single-flange studs with an Ø10, Ø9 from a length of 13 mm only.</td>
</tr>
<tr>
<td>EP-10 (gun for machine)</td>
<td>100263</td>
<td></td>
</tr>
</tbody>
</table>

3.2 Dimensions and weight

The following values are valid for the gun without any accessories and can differ according to the respective extra equipment.

<table>
<thead>
<tr>
<th>Length</th>
<th>ca. 282 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>ca. 60 mm</td>
</tr>
<tr>
<td>Height</td>
<td>ca. 194 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>ca. 1,8 kg</td>
</tr>
</tbody>
</table>
3.3 Noise emission

The sound pressure level at the work station of the operator can reach up to 83 dB(A). Provide suitable ear protection for the operator.

3.4 Ambient conditions

Use the gun only in closed and dry rooms.

The permissible ambient temperature during operation is from 10 °C to 40 °C.
4 Commissioning

Precautions to be taken before start working with the gun

- Check gun for proper condition.
- Do never operate a damaged gun.

4.1 Pneumatic connection

Attention!

The pneumatic connection is to be made by qualified personnel with extensive knowledge in handling of pneumatic systems.

Screw provided coupling (1) onto the hand grip. Plug compressed air hose into coupling. The gun requires compressed air with approx. 7-8 bar working pressure. The maximum operating pressure amounts to 10 bar.
5 Operation of the gun

5.1 Insertion of studs

Without feeding unit: fill the feeding pipe (13) with approx. 10 studs (flange leading).

With feeding unit: connect the gun with the feeding hose of the studs until feeding pipe (13) is filled with studs (flange leading).

Moisten tire with low surface tension water. To get this, mix normal tap water with some drops of usual dish liquid.

Tip!

Use only less dish liquid to avoid that the inserted stud is pulled out again when extracting the gun.

Insert spreader fingers (23) into one of the moistened tyre holes. Operate the trigger (28) and keep it pressed. The stud is pressed into the tire. Release trigger (28); the gun is now loosen from the tire and the stud is inserted.

Tip!

Put some pressure onto the gun when inserting the studs. With some practice and skill you'll soon find the respective pressure which shall be applied to reach a steady result.
5.2 Faults during insertion

5.2.1 Studs inserted too deep

Reduce the pressure applied on the gun during insertion.

5.2.2 Studs jut out off the tire

Put more pressure onto the gun when inserting the studs.

5.3 Conversion of machine gun to manual gun

If you are using a studding machine (AS-ZN, EP-ZN or EPK-ZN) and want to dismantle the gun from the base frame to use it manually you’ll firstly have to convert the gun, i.e. to release the trigger:

Caution!

Disconnect the gun from the compressed air supply.
**Release trigger:** Slip off O-ring (30) from bushing (32) and dowel pin (29) appears. The dowel pin can be easily pushed out of the bore. The trigger (28) is released and can be removed. Turn the trigger by 90° and insert it back into the bushing. Then insert the dowel pin into the bore of the bushing. Slip the O-ring over and place it into the groove.
Stop!

The gun must be set back to its initial state should you want to use it on the studding machine.
6 Faults and troubleshooting

Caution!

When unscrewing the intermediate piece (17), it must be held tight, because of the strong compression spring which is in the gun. If not, it can be ejected and pose great danger.

<table>
<thead>
<tr>
<th>No.</th>
<th>Cause</th>
<th>Trouble shooting</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.1</td>
<td>Deformed or dirty stud jammed in feeding pipe (13) or gun head.</td>
<td>Unscrew Union nut (18) and take the head (26) off the gun. Now remove the jammed stud.</td>
</tr>
<tr>
<td>6.2</td>
<td>Stud in feeding pipe (13) in wrong position (with shank leading)</td>
<td>Remove feeding tube and shake out stud</td>
</tr>
<tr>
<td>6.3</td>
<td>Trigger (28) get caught</td>
<td>Remove O-Ring (30) and dowel pin (29) and then trigger (28). Clean and lubricate trigger slightly with oil. Check if compression spring (3) broken, if so replace compression spring.</td>
</tr>
<tr>
<td>6.4</td>
<td>Worn spreader fingers (23)</td>
<td>Unscrew Union nut (18) and take the head (26) off the gun. Remove spring lock (21) and replace spreader finger (23)</td>
</tr>
<tr>
<td>6.5</td>
<td>Worn push rod (12)</td>
<td>Unscrew Union nut (18) and take the head (26) off the gun. Unscrew both hexagon head cap screws (27) (Caution!), hold the intermediate piece (17) (pressure of inner springs). Remove intermediate part and circlip (15). Extract push rod (12) together with the springs (10, 11), retaining ring (14) piston disk (6) and lip seal (7). Unscrew hexagon nut (4) and replace worn push rod. Assemble the gun is reversed order and replace hexagon nut if necessary.</td>
</tr>
<tr>
<td>6.6</td>
<td>Worn centring finger (24)</td>
<td>Unscrew Union nut (18) and take the head (26) off the gun. Remove spring lock (21), Union nut and O-ring (19). Replace centring finger (24).</td>
</tr>
<tr>
<td>6.7</td>
<td>Worn separating finger (20)</td>
<td>Unscrew Union nut (18) and take the head (26) off the gun. Remove spring lock (21), Union nut and O-ring (19). Drive off spring pin (22) with a drift punch until it is possible to remove the separating finger (20). Replace separating finger, consider that the separating finger may not jam it should remain movable.</td>
</tr>
</tbody>
</table>
7 Lubrication and maintenance

7.1 Lubrication

Stop!
Observe the effective directions for the use and safety of the applied lubricants!

7.1.1 Lubricating oil

<table>
<thead>
<tr>
<th>Distinguishing mark acc. to DIN 51502</th>
<th>Designation</th>
<th>ISO-Viscosity Index DIN 51519</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>AN 22</td>
<td>Normal lubricating oil</td>
<td>ISO VG 22</td>
<td>AVIA (AVILUB RS 22) BP (BP Energol CS 22) ESSO (Coray 22) SHELL (SHELL Carnea Oel 22)</td>
</tr>
</tbody>
</table>

7.1.2 Lubricating grease

<table>
<thead>
<tr>
<th>Designation acc. to DIN 51825</th>
<th>Designation</th>
<th>Consistency Index NLGI Class as per DIN 51818</th>
<th>Worked penetration as per DIN ISO 2137</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>KP2K-20</td>
<td>Lubricating grease for bearing</td>
<td>NLGI-2</td>
<td>265-295</td>
<td>AVIA (AVIALITH 2) BP (Energrease L2) ESSO (Beacon 2) KLÜBER (CENTOPLEX 2 EP) MOBIL (Mobilux 2) SHELL (Alvania R 2)</td>
</tr>
</tbody>
</table>
7.2 Greasing points

The following points of the gun need to be greased regularly. You will find a maintenance-set including grease and corrosion preventive-oil-spray in the spare parts list in chapter 9.6.

To grease the gun it must be partially dismounted (see hereto chapter 6 “Faults and trouble shooting”. We recommend taking the opportunity and greasing the gun when replacing the wear parts.

<table>
<thead>
<tr>
<th>No.</th>
<th>Designation</th>
<th>Service to be done</th>
<th>Consumables Measured values</th>
<th>Frequency</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Trigger</td>
<td>Lubricate with oil</td>
<td>Lubricating oil DIN 51501-L-AN 22</td>
<td>quarterly</td>
<td>Oil trigger slightly</td>
</tr>
<tr>
<td>2</td>
<td>Piston disk</td>
<td>Lubricate with grease</td>
<td>Lubricating grease DIN 51825-KP2K-20</td>
<td>yearly</td>
<td>Grease piston surface slightly</td>
</tr>
</tbody>
</table>

7.3 Maintenance

We are working with water to insert the studs, therefore the head of the gun shall be sprayed regularly with anticorrosive material to avoid corrosion and extend lifetime of the gun.
8 Shutdown and dismounting

OKU takes back your gun. We recommend you have OKU professionally dismantle the gun and dispose of it.

Tip!
Be part of the environmental protection by recycling valuable materials.

<table>
<thead>
<tr>
<th>What?</th>
<th>Where?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport material</td>
<td>Pallets</td>
</tr>
<tr>
<td></td>
<td>Return to the manufacturer or forwarder</td>
</tr>
<tr>
<td>Packing material</td>
<td>Cardboard boxes to waste paper</td>
</tr>
<tr>
<td></td>
<td>plastic to plastic recycling or waste material</td>
</tr>
<tr>
<td>Lubricants</td>
<td>Oil, grease</td>
</tr>
<tr>
<td></td>
<td>Dispose according to the valid regulations</td>
</tr>
<tr>
<td>Components</td>
<td>Used materials: aluminium</td>
</tr>
<tr>
<td></td>
<td>aluminium cast</td>
</tr>
<tr>
<td></td>
<td>grey cast iron</td>
</tr>
<tr>
<td></td>
<td>steel</td>
</tr>
<tr>
<td></td>
<td>brass</td>
</tr>
<tr>
<td></td>
<td>plastic</td>
</tr>
<tr>
<td></td>
<td>Separate valuable substances and dispose</td>
</tr>
</tbody>
</table>
9 Spear and wear parts

9.1 Requirements

Stop!

Spare and wear parts must be in accordance with the technical requirements stipulated by the manufacturer.

9.2 Handling of order

To ensure punctual handling of orders, please state always the OKU-ID.-No. of the spare part you need when ordering. You'll find the OKU-Id.-No. on the drawing of the gun and the spare parts list.

9.3 Explanation to the spare parts list

The numbering of the spare parts in the exploded drawing corresponds to the item numbers of the spare parts list.

9.4 Spare parts-set

To the gun there is available a spare parts-set including the most important wear parts. It contains all in the spare parts list with * marked parts inclusive grease and corrosion preventive-oil-spray.

OKU-Id.-No. spare parts-set EP-8: 20015505
OKU-Id.-No. spare parts-set EP-9: 20015506
OKU-Id.-No. spare parts-set EP-10: 20015507

<table>
<thead>
<tr>
<th>Item</th>
<th>OKU part No.</th>
<th>Qty</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>00031539</td>
<td>1</td>
<td>Coupling (for manual use)</td>
</tr>
<tr>
<td></td>
<td>00031547</td>
<td>1</td>
<td>Coupling (for machine use)</td>
</tr>
<tr>
<td>2</td>
<td>00003463</td>
<td>1</td>
<td>O-Ring</td>
</tr>
<tr>
<td>3</td>
<td>00350297</td>
<td>1</td>
<td>Compression spring</td>
</tr>
<tr>
<td>4</td>
<td>00004082</td>
<td>1</td>
<td>Hexagon nut M8</td>
</tr>
<tr>
<td>5</td>
<td>00470944</td>
<td>1</td>
<td>Hand grip EP-Car</td>
</tr>
<tr>
<td>6</td>
<td>00350667</td>
<td>1</td>
<td>Piston disk</td>
</tr>
<tr>
<td>7</td>
<td>00003507</td>
<td>1</td>
<td>Lip seal</td>
</tr>
<tr>
<td>8</td>
<td>00000613</td>
<td>1</td>
<td>Eyebolt</td>
</tr>
<tr>
<td>9</td>
<td>00000627</td>
<td>1</td>
<td>Hexagon nut M6</td>
</tr>
<tr>
<td>10</td>
<td>00350670</td>
<td>1</td>
<td>Compression spring, inner</td>
</tr>
<tr>
<td>11</td>
<td>00350669</td>
<td>1</td>
<td>Compression spring, outer</td>
</tr>
<tr>
<td>12</td>
<td>00250052</td>
<td>1</td>
<td>Push rod 8 (EP-8) *</td>
</tr>
<tr>
<td></td>
<td>00250051</td>
<td>1</td>
<td>Push rod 9 (EP-9) *</td>
</tr>
<tr>
<td></td>
<td>00250050</td>
<td>1</td>
<td>Push rod 10 (EP-10) *</td>
</tr>
<tr>
<td>13</td>
<td>00350671</td>
<td>1</td>
<td>Feeding pipe 8 (EP-8)</td>
</tr>
<tr>
<td></td>
<td>00350711</td>
<td>1</td>
<td>Feeding pipe 9 (EP-9)</td>
</tr>
<tr>
<td></td>
<td>00350726</td>
<td>1</td>
<td>Feeding pipe 10 (EP-10)</td>
</tr>
<tr>
<td>14</td>
<td>00350666</td>
<td>1</td>
<td>Retaining ring</td>
</tr>
<tr>
<td>15</td>
<td>00000796</td>
<td>1</td>
<td>Circlip</td>
</tr>
<tr>
<td>16</td>
<td>00004709</td>
<td>1</td>
<td>Set screw</td>
</tr>
<tr>
<td>17</td>
<td>00470185</td>
<td>1</td>
<td>Intermediate piece EP-PKW</td>
</tr>
<tr>
<td>18</td>
<td>00350922</td>
<td>1</td>
<td>Union nut</td>
</tr>
<tr>
<td>19</td>
<td>00003466</td>
<td>1</td>
<td>O-Ring *</td>
</tr>
<tr>
<td>20</td>
<td>00470649</td>
<td>1</td>
<td>Separating finger (single-flange studs)</td>
</tr>
<tr>
<td></td>
<td>00470651</td>
<td>1</td>
<td>Separating finger (multi-flange studs)</td>
</tr>
<tr>
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<td>grease, tube 20 g (single) *</td>
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<td>1 aerosol can corrosion preventive-oil (100 ml) and 1 tube grease (20 g) as maintenance-set</td>
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</table>

* = included in the spare parts-set
10 Appendix

10.1 CE-Declaration of Conformity

CE Declaration of Conformity
(CE Machine Directive 2006/42/EC, Appendix II A)

The manufacturer: OKU GmbH
Assembly and Feeding Systems
Rosenstr. 15
73650 WINTERBACH, GERMANY

herewith declares that the machine

EP-12, EP-15, EPK-6,5, EPK-8

as delivered complies all the relevant regulations of the CE Machine Directive
2006/42/EC.

Harmonized standards applied:
EN ISO 12100-1/A1 Safety of machinery – Basic concepts, general principles for
design – Part 1: Basic terminology, methodology
EN ISO 12100-2/A1 Safety of machinery – Basic concepts, general principles for
design – Part 2: Technical principles

Authorized person to compile the relevant technical documentation:
Armin Layher, Rosenstr. 15, 73650 Winterbach

Winterbach, 01.01.2010

OKU GmbH
Assembly and feeding Systems

Hans-Joachim Kurz
CEO

Spikes-Pistole-EG-Konformität-01-2010

OKU GmbH, 73650 Winterbach, Germany

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10.3 Manufacturer and contact person

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